

9457 227

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L1: Entry 1 of 1

File: USPT

Sep 16, 2003

US-PAT-NO: 6622144

DOCUMENT-IDENTIFIER: US 6622144 B1

TITLE: Methods and database for extending columns in a record

DATE-ISSUED: September 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rush, Jr.; Ronald A.	Columbia	SC		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
NCR Corporation	Dayton	OH			02

APPL-NO: 09/ 649698 [PALM]

DATE FILED: August 28, 2000

INT-CL: [07] G06 F 17/00, G06 F 7/00

US-CL-ISSUED: 707/101; 707/102, 707/100

US-CL-CURRENT: 707/101; 707/100, 707/102

FIELD-OF-SEARCH: 707/3, 707/6, 707/100, 707/102, 707/2, 707/4, 707/103, 707/101

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 5261098	November 1993	Katin et al.	395/650
<input type="checkbox"/> 5355493	October 1994	Silberbauer et al.	395/700
<input type="checkbox"/> 5745755	April 1998	Covey	395/619
<input type="checkbox"/> 5745889	April 1998	Burrows	707/2
<input type="checkbox"/> 5799310	August 1998	Anderson et al.	707/102
<input type="checkbox"/> 5826259	October 1998	Doktor	707/4
<input type="checkbox"/> 5832481	November 1998	Sheffield	707/4
<input type="checkbox"/> 5940818	August 1999	Malloy et al.	707/2

<input type="checkbox"/> <u>6016497</u>	January 2000	Suver	707/103R
<input type="checkbox"/> <u>6069627</u>	May 2000	Conrad et al.	345/866
<input type="checkbox"/> <u>6078925</u>	June 2000	Anderson et al.	707/103R
<input type="checkbox"/> <u>6338056</u>	January 2002	Dessloch et al.	707/2
<input type="checkbox"/> <u>6366934</u>	April 2002	Cheng et al.	707/513
<input type="checkbox"/> <u>6405198</u>	June 2002	Bitar et al.	707/6
<input type="checkbox"/> <u>6450955</u>	September 2002	Brown et al.	600/300
<input type="checkbox"/> <u>6463440</u>	October 2002	Hind et al.	707/102
<input type="checkbox"/> <u>6470343</u>	October 2002	O'Brien et al.	707/100
<input type="checkbox"/> <u>6519597</u>	February 2003	Cheng et al.	707/10

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
2325761	December 1998	GB	

ART-UNIT: 2171

PRIMARY-EXAMINER: Robinson; Greta

ASSISTANT-EXAMINER: Rayyan; Susan

ATTY-AGENT-FIRM: Schwegman, Lundberg, Woessner, Kluth

ABSTRACT:

Methods and a database for extending the columns of a record are provided. A record is provided having an extendible column wherein a tokenized string may be stored. Moreover, the tokenized string includes one or more tags, each tag logically representing an extendible column to associate with the record. Further, at least a portion of the tokenized string is delivered upon a request. The tokenized string may conform to at least one of XML, HTML, and SGML. Moreover, updates to the record occur without modifying a table definition associated with the record.

20 Claims, 5 Drawing figures

Hit List

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Search Results - Record(s) 1 through 10 of 12 returned.

☐ 1. Document ID: US 6654726 B1

L4: Entry 1 of 12

File: USPT

Nov 25, 2003

US-PAT-NO: 6654726

DOCUMENT-IDENTIFIER: US 6654726 B1

TITLE: Communication schema of online system and method of status inquiry and tracking related to orders for consumer product having specific configurations

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw De
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☐ 2. Document ID: US 6625581 B1

L4: Entry 2 of 12

File: USPT

Sep 23, 2003

US-PAT-NO: 6625581

DOCUMENT-IDENTIFIER: US 6625581 B1

TITLE: METHOD OF AND SYSTEM FOR ENABLING THE ACCESS OF CONSUMER PRODUCT RELATED INFORMATION AND THE PURCHASE OF CONSUMER PRODUCTS AT POINTS OF CONSUMER PRESENCE ON THE WORLD WIDE WEB (WWW) AT WHICH CONSUMER PRODUCT INFORMATION REQUEST (CPIR) ENABLING SERVLET TAGS ARE EMBEDDED WITHIN HTML-ENCODED DOCUMENTS

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw De
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☐ 3. Document ID: US 6609108 B1

L4: Entry 3 of 12

File: USPT

Aug 19, 2003

US-PAT-NO: 6609108

DOCUMENT-IDENTIFIER: US 6609108 B1

TITLE: Communication schema of online system and method of ordering consumer product having specific configurations

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw De
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☐ 4. Document ID: US 6560581 B1

L4: Entry 4 of 12

File: USPT

May 6, 2003

US-PAT-NO: 6560581

DOCUMENT-IDENTIFIER: US 6560581 B1

TITLE: System and method for secure electronic commerce transaction

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 5. Document ID: US 6557029 B2

L4: Entry 5 of 12

File: USPT

Apr 29, 2003

US-PAT-NO: 6557029

DOCUMENT-IDENTIFIER: US 6557029 B2

TITLE: System and method for distributing messages

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 6. Document ID: US 6484149 B1

L4: Entry 6 of 12

File: USPT

Nov 19, 2002

US-PAT-NO: 6484149

DOCUMENT-IDENTIFIER: US 6484149 B1

**** See image for Certificate of Correction ****

TITLE: Systems and methods for viewing product information, and methods for generating web pages

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 7. Document ID: US 6343275 B1

L4: Entry 7 of 12

File: USPT

Jan 29, 2002

US-PAT-NO: 6343275

DOCUMENT-IDENTIFIER: US 6343275 B1

TITLE: Integrated business-to-business web commerce and business automation system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 8. Document ID: US 6327574 B1

L4: Entry 8 of 12

File: USPT

Dec 4, 2001

US-PAT-NO: 6327574

DOCUMENT-IDENTIFIER: US 6327574 B1

TITLE: Hierarchical models of consumer attributes for targeting content in a privacy-preserving manner

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 9. Document ID: US 5982891 A

L4: Entry 9 of 12

File: USPT

Nov 9, 1999

US-PAT-NO: 5982891

DOCUMENT-IDENTIFIER: US 5982891 A

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 10. Document ID: US 5956688 A

L4: Entry 10 of 12

File: USPT

Sep 21, 1999

US-PAT-NO: 5956688

DOCUMENT-IDENTIFIER: US 5956688 A

TITLE: Electronic transaction apparatus and computer readable storage medium on which is recorded control program for executing format conversion in electronic transaction

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Terms	Documents
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Search Results - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 6654726 B1

L5: Entry 1 of 10

File: USPT

Nov 25, 2003

US-PAT-NO: 6654726

DOCUMENT-IDENTIFIER: US 6654726 B1

TITLE: Communication schema of online system and method of status inquiry and tracking related to orders for consumer product having specific configurations

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 2. Document ID: US 6609108 B1

L5: Entry 2 of 10

File: USPT

Aug 19, 2003

US-PAT-NO: 6609108

DOCUMENT-IDENTIFIER: US 6609108 B1

TITLE: Communication schema of online system and method of ordering consumer product having specific configurations

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 3. Document ID: US 6557029 B2

L5: Entry 3 of 10

File: USPT

Apr 29, 2003

US-PAT-NO: 6557029

DOCUMENT-IDENTIFIER: US 6557029 B2

TITLE: System and method for distributing messages

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 4. Document ID: US 6484149 B1

L5: Entry 4 of 10

File: USPT

Nov 19, 2002

US-PAT-NO: 6484149

DOCUMENT-IDENTIFIER: US 6484149 B1

**** See image for Certificate of Correction ****

TITLE: Systems and methods for viewing product information, and methods for generating web pages

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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5. Document ID: US 6343275 B1

L5: Entry 5 of 10

File: USPT

Jan 29, 2002

US-PAT-NO: 6343275

DOCUMENT-IDENTIFIER: US 6343275 B1

TITLE: Integrated business-to-business web commerce and business automation system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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6. Document ID: US 6327574 B1

L5: Entry 6 of 10

File: USPT

Dec 4, 2001

US-PAT-NO: 6327574

DOCUMENT-IDENTIFIER: US 6327574 B1

TITLE: Hierarchical models of consumer attributes for targeting content in a privacy-preserving manner

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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7. Document ID: US 5982891 A

L5: Entry 7 of 10

File: USPT

Nov 9, 1999

US-PAT-NO: 5982891

DOCUMENT-IDENTIFIER: US 5982891 A

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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8. Document ID: US 5956688 A

L5: Entry 8 of 10

File: USPT

Sep 21, 1999

US-PAT-NO: 5956688

DOCUMENT-IDENTIFIER: US 5956688 A

TITLE: Electronic transaction apparatus and computer readable storage medium on which is recorded control program for executing format conversion in electronic transaction

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 9. Document ID: US 5915019 A

L5: Entry 9 of 10

File: USPT

Jun 22, 1999

US-PAT-NO: 5915019

DOCUMENT-IDENTIFIER: US 5915019 A

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 10. Document ID: US 5438508 A

L5: Entry 10 of 10

File: USPT

Aug 1, 1995

US-PAT-NO: 5438508

DOCUMENT-IDENTIFIER: US 5438508 A

TITLE: License document interchange format for license management system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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L5: Entry 1 of 10

File: USPT

Nov 25, 2003

US-PAT-NO: 6654726

DOCUMENT-IDENTIFIER: US 6654726 B1

TITLE: Communication schema of online system and method of status inquiry and tracking related to orders for consumer product having specific configurations

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hanzek; Joe J.	Novi	MI		

US-CL-CURRENT: 705/26; 705/28

ABSTRACT:

An online communication schema for inquiring and tracking status of an online order for a product is provided. The communication schema comprises a consumer status request message, which includes a source identifier identifying a web site from which the consumer status request message originated, and a customer identifier identifying a customer who originated the status request message. The communication schema also comprises a consumer status reply message, which includes an order number, and order status information.

39 Claims, 47 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 40

First Hit Fwd Refs

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L5: Entry 2 of 10

File: USPT

Aug 19, 2003

US-PAT-NO: 6609108

DOCUMENT-IDENTIFIER: US 6609108 B1

TITLE: Communication schema of online system and method of ordering consumer product having specific configurations

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pulliam; Timothy E.	Westland	MI		
Bartkowiak; Don G.	Livonia	MI		
Champagne; Daryl L.	Northville	MI		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Ford Motor Company	Dearborn	MI			02

APPL-NO: 09/ 542637 [PALM]

DATE FILED: April 4, 2000

PARENT-CASE:

RELATED PATENT APPLICATIONS This application claims the benefit of U.S. patent application Ser. No. 09/561,644, filed May. 2, 2000, and entitled Method and System for Configuring and Ordering Consumer Product, which claims benefit of U.S. Provisional Application Serial No. 60/163,755, filed Nov. 5, 1999, and entitled Automotive Internet Business Methods and Systems. This application is related to co-pending U.S. application Ser. No. 09/538,516, filed on Mar. 29, 2000, and entitled, "Communication Schema of Online System and Method of Status Inquiry and Tracking Related to Orders for Consumer Product Having Specific Configurations." This application is related to co-pending U.S. application Ser. No. 09/539,392 filed on Mar. 30, 2000, and entitled, "Online System and Method of Locating Consumer Product Having Specific Configurations in the Enterprise Production Pipeline and Inventory." This application is related to co-pending U.S. application Ser. No. 09/542,413 filed on Apr. 4, 2000, and entitled, "Online System and Method of Reporting Related to Orders for Consumer Product Having Specific Configurations." This application is related to co-pending U.S. application Ser. No. 09/543,833 filed on Apr. 4, 2000, and entitled, "Communication Schema of Online Reporting System and Method Related to Online Orders for Consumer Products Having Specific Configurations." This application is related to co-pending U.S. application Ser. No. 09/543,686 filed on Apr. 5, 2000, and entitled, "Online System and Method of Ordering and Specifying Consumer Product Having Specific Configurations." This application is related to co-pending U.S. application Ser. No. 09/543,860, filed on Apr. 5, 2000, and entitled, "Communication Schema of Online System and Method of Locating Consumer Product in the Enterprise Production Pipeline." This application is related to co-pending U.S. application Ser. No. 09/537,190 filed on Mar. 29, 2000, and entitled, "Online System and Method of Status Inquiry and Tracking Related to Orders for Consumer Product Having Specific

Configurations."

INT-CL: [07] G06 F 17/60

US-CL-ISSUED: 705/27

US-CL-CURRENT: 705/27

FIELD-OF-SEARCH: 705/26, 705/27

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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<input type="checkbox"/>	<u>5757917</u>	May 1998	Rose et al.	380/25
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<input type="checkbox"/>	<u>5774873</u>	June 1998	Berent et al.	705/26
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<input type="checkbox"/>	<u>5826241</u>	October 1998	Stein et al.	705/26
<input type="checkbox"/>	<u>5839112</u>	November 1998	Schreitmueller et al.	705/4
<input type="checkbox"/>	<u>5884300</u>	March 1999	Brockman	707/2
<input type="checkbox"/>	<u>5887271</u>	March 1999	Powell	705/14
<input type="checkbox"/>	<u>5890137</u>	March 1999	Koreeda	705/26
<input type="checkbox"/>	<u>5890138</u>	March 1999	Godin et al.	705/26
<input type="checkbox"/>	<u>5895454</u>	April 1999	Harrington	
<input type="checkbox"/>	<u>5897622</u>	April 1999	Blinn et al.	
<input type="checkbox"/>	<u>5899980</u>	May 1999	Wilf et al.	705/26
<input type="checkbox"/>	<u>5905974</u>	May 1999	Fraser et al.	705/37
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<input type="checkbox"/>	<u>5913210</u>	June 1999	Call	
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<input type="checkbox"/>	<u>5960408</u>	September 1999	Martin et al.	
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<input type="checkbox"/>	<u>5970472</u>	October 1999	Allsop et al.	705/26
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	<u>5991739</u>	November 1999	Cupps et al.	

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<input type="checkbox"/>	<u>6014628</u>	January 2000	Kovarik, Jr.	705/1
<input type="checkbox"/>	<u>6016504</u>	January 2000	Arnold et al.	
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<input type="checkbox"/>	<u>6058373</u>	May 2000	Blinn et al.	705/26
<input type="checkbox"/>	<u>6282517</u>	August 2001	Wolfe et al.	705/26
<input type="checkbox"/>	<u>6339763</u>	January 2002	Divine et al.	705/27
<input type="checkbox"/>	<u>6341270</u>	January 2002	Esposito et al.	705/26

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U.S. patent application Ser. No. 09/539,392 entitled Online System and Method of Locating Consumer Product Having Specific Configurations in the Enterprise Production Pipeline and Inventory, filed Mar. 31, 2000, 120 pages.

U.S. patent application Ser. No. 09/542,413 entitled Online System and Method of Reporting Related to Orders for Consumer Product Having Specific Configurations, filed Apr. 1, 2000, 119 pages.

U.S. patent application Ser. No. 09/543,833 entitled Communication Schema of Online

Reporting System and Method Related to Online Orders for Consumer Products Having Specific Configurations, filed Apr. 5, 2000, 118 pages.

U.S. patent application Ser. No. 09/543,686 entitled Online System and Method of Ordering and Specifying Consumer Product Having Specific Configurations, Apr. 5, 2000, 119 pages.

U.S. patent application Ser. No. 09/543,860 entitled Communication Schema of Online System and Method of Locating Consumer Product in the Enterprise Production Pipeline, filed Apr. 5, 2000, 135 pages.

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ART-UNIT: 2167

PRIMARY-EXAMINER: Olszewski; Robert P.

ASSISTANT-EXAMINER: Jaketic; Bryan

ATTY-AGENT-FIRM: Baker & Botts, LLP. Hanze; Carlos L.

ABSTRACT:

An online communication schema for communicating online vehicle orders is provided. The communication schema includes a customer request message, which includes an order message having order information, contact information and vehicle configuration. The order message includes a fleet order message, a retail order message, and a tagged order message. The communication schema further includes a lead message having lead information, contact information, vehicle configuration, and dealer information. The communication schema further includes an order confirmation message.

36 Claims, 47 Drawing figures

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L5: Entry 3 of 10

File: USPT

Apr 29, 2003

US-PAT-NO: 6557029

DOCUMENT-IDENTIFIER: US 6557029 B2

TITLE: System and method for distributing messages

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Szymansky; Roman	West Milford	NJ		

US-CL-CURRENT: 709/206; 705/26, 705/37, 709/217, 709/219

ABSTRACT:

A system and a method for distributing messages from mobile users over a communication network in real time. In the preferred embodiment, mobile users would enter information in handwritten form on a touch-sensitive screen using a stylus. The handwritten messages would be converted into a graphics format and then transmitted (using a suitable protocol) to a computer server. The computer server would store the graphic files in a database and also transmit the graphic files to subscribers.

13 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

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L5: Entry 4 of 10

File: USPT

Nov 19, 2002

US-PAT-NO: 6484149

DOCUMENT-IDENTIFIER: US 6484149 B1

**** See image for Certificate of Correction ****

TITLE: Systems and methods for viewing product information, and methods for generating web pages

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jammes; Pierre J.	Bellevue	WA		
Franklin; D. Chase	Seattle	WA		
Remington; Darren B.	Issaquah	WA		

US-CL-CURRENT: 705/26

ABSTRACT:

A system and method for designing and operating an electronic store (1) permit a merchant to organize and advertise descriptions of product inventory over the Internet, (2) permit Web page information to be extracted on-demand from a product inventory database, and (3) permit Web pages to be automatically customized to fit shopping behaviors of individual consumers. A graphical store design user interface of a Web browser displays a hierarchical representation of products and, product groups of an electronic store. A user manipulates icons of the Web browser store design user interface to cause a Web server to modify relationships between products and product groups stored in a product information database. A store designer creates HTML template files, embeds database and customize references within the template files, and assigns template files to groups or products of the electronic store.

The Web server receives requests to access Web pages from consumers using standard Web browsers. The Web server opens a template file related to the requested Web page, creates hyperlinks and other information content by executing database references embedded within the template file, and merges the hyperlinks and content with the template file to generate an HTML Web page to send to the Web browser. The Web server automatically creates additional hyperlinks to any Web pages or products preferred by the consumer by executing customize instructions associated with customize references in a template file. To determine whether any products or Web pages are preferred by a consumer, the Web server examines a traffic analysis database and extracts the consumer's history of accesses to Web pages and orders of products. For each Web page the consumer has accessed, the Web server uses preferred page rules to determine whether the page was accessed with sufficient frequency to generate a hyperlink to the page. For each product the consumer ordered, the Web server uses preferred product rules to determine whether the product was ordered with sufficient frequency to generate a hyperlink to a page offering the product.

17 Claims, 33 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 27

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L5: Entry 5 of 10

File: USPT

Jan 29, 2002

US-PAT-NO: 6343275

DOCUMENT-IDENTIFIER: US 6343275 B1

TITLE: Integrated business-to-business web commerce and business automation system

DATE-ISSUED: January 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Charles	Los Altos Hills	CA	94022	

US-CL-CURRENT: [705/26](#); [705/1](#), [705/7](#), [705/8](#), [705/9](#), [707/1](#), [707/10](#), [707/100](#), [707/102](#), [709/201](#), [715/523](#)

ABSTRACT:

A software system business-to-business Web commerce (Web business, or e-business) and automates to the greatest degree possible, in a unified and synergistic fashion and using best proven business practices, the various aspects of running a successful and profitable business. Web business and business automation are both greatly facilitated using a computing model based on a single integrated database management system (DBMS) that is either Web-enabled or provided with a Web front-end. The Web provides a window into a "seamless" end-to-end internal business process. The effect of such integration on the business cycle is profound, allowing the sale of virtually anything in a transactional context (goods, services, insurance, subscriptions, etc.) to be drastically streamlined.

19 Claims, 339 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 392

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L5: Entry 6 of 10

File: USPT

Dec 4, 2001

US-PAT-NO: 6327574

DOCUMENT-IDENTIFIER: US 6327574 B1

TITLE: Hierarchical models of consumer attributes for targeting content in a privacy-preserving manner

DATE-ISSUED: December 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kramer; Glenn A.	San Francisco	CA		
Vogel; Mark B.	San Francisco	CA		

US-CL-CURRENT: 705/14; 705/10, 705/26

ABSTRACT:

A system and method provide for the interpretation and augmenting of structured documents electronically delivered to an individual consumer's computer using consumer profiles developed from and maintained with information reflecting the consumer's online and offline transactions, by selecting the variable content alternatives encoded in the structured documents that most closely match the consumer's profile. The consumer profiles are logically controlled by the consumer's computer, thus providing for enhanced security over information that is personal and confidential to the consumer, yet still allowing third parties such as web sites and others electronically delivering structured documents to the consumer to have such documents customized based on the consumer's profile. The consumer profile includes hierarchical attribute vectors which encode attributes of a consumer at progressively higher levels of abstraction, and allowing for querying of any combination of abstracted data or abstracted attributes of a consumer. The consumer profiles are updated with a process that reflects the relevance of each transaction to the consumer's profile, and accommodates a decay in the influence of transactions over time. A selection process for selecting content allows for multiple items of content to be selected for sequenced display to the consumer, through a limited presentation space.

32 Claims, 23 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 18

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L5: Entry 7 of 10

File: USPT

Nov 9, 1999

US-PAT-NO: 5982891

DOCUMENT-IDENTIFIER: US 5982891 A

TITLE: Systems and methods for secure transaction management and electronic rights protection

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ginter; Karl L.	Beltsville	MD		
Shear; Victor H.	Bethesda	MD		
Spahn; Francis J.	El Cerrito	CA		
Van Wie; David M.	Sunnyvale	CA		

US-CL-CURRENT: 705/54; 705/26, 713/167

ABSTRACT:

The present invention provides systems and methods for secure transaction management and electronic rights protection. Electronic appliances such as computers equipped in accordance with the present invention help to ensure that information is accessed and used only in authorized ways, and maintain the integrity, availability, and/or confidentiality of the information. Such electronic appliances provide a distributed virtual distribution environment (VDE) that may enforce a secure chain of handling and control, for example, to control and/or meter or otherwise monitor use of electronically stored or disseminated information. Such a virtual distribution environment may be used to protect rights of various participants in electronic commerce and other electronic or electronic-facilitated transactions. Distributed and other operating systems, environments and architectures, such as, for example, those using tamper-resistant hardware-based processors, may establish security at each node. These techniques may be used to support an all-electronic information distribution, for example, utilizing the "electronic highway."

102 Claims, 153 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 146

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L5: Entry 8 of 10

File: USPT

Sep 21, 1999

US-PAT-NO: 5956688

DOCUMENT-IDENTIFIER: US 5956688 A

TITLE: Electronic transaction apparatus and computer readable storage medium on which is recorded control program for executing format conversion in electronic transaction

DATE-ISSUED: September 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kokubo; Yoshiyuki	Kawasaki			JP
Iwamoto; Takashi	Kawasaki			JP
Fujita; Tutomu	Kawasaki			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Fujitsu Limited	Kawasaki			JP	03

APPL-NO: 08/ 987839 [\[PALM\]](#)

DATE FILED: December 9, 1997

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	9-117788	May 8, 1997

INT-CL: [06] [G06](#) [F](#) [17/60](#)

US-CL-ISSUED: 705/1; 705/35, 705/37, 705/26, 345/340, 345/346, 395/500, 395/680, 709/204, 709/206, 709/207

US-CL-CURRENT: [705/1](#); [345/781](#), [345/804](#), [703/6](#), [705/26](#), [705/35](#), [705/37](#), [709/204](#), [709/206](#), [709/207](#), [719/313](#)

FIELD-OF-SEARCH: 705/1, 705/26, 705/35, 705/37, 705/10, 395/701-710, 395/680, 395/500, 395/200.34, 395/200.36, 395/200.37, 395/671, 709/101, 709/204, 709/206, 709/207, 345/326, 345/340, 345/342, 345/356

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

<input type="checkbox"/> <u>4951196</u>	August 1990	Jackson	705/37
<input type="checkbox"/> <u>5202977</u>	April 1993	Pasetes, Jr. et al.	395/500
<input type="checkbox"/> <u>5557780</u>	September 1996	Edwards et al.	395/500
<input type="checkbox"/> <u>5694551</u>	December 1997	Doyle et al.	705/26
<input type="checkbox"/> <u>5758126</u>	May 1998	Daniel et al.	395/500
<input type="checkbox"/> <u>5794206</u>	August 1998	Wilkinson et al.	705/1
<input type="checkbox"/> <u>5878419</u>	March 1999	Carter	707/10

ART-UNIT: 271

PRIMARY-EXAMINER: Cosimano; Edward R.

ASSISTANT-EXAMINER: Alvarez; Raquel

ATTY-AGENT-FIRM: Staas & Halsey

ABSTRACT:

A relevance information setting unit imparts the same relevance code to related elements in a standard message to indicate a relevance. A mapping processing unit displays a standard message and a local message side by side on a display and while referring to the relevance codes imparted to the standard elements, defines link relations with local elements on the display to create a conversion table for use in a message format conversion in a conversion unit. A link line appears when a standard element and a local element are selected to be linked.

14 Claims, 30 Drawing figures

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L5: Entry 9 of 10

File: USPT

Jun 22, 1999

US-PAT-NO: 5915019

DOCUMENT-IDENTIFIER: US 5915019 A

TITLE: Systems and methods for secure transaction management and electronic rights protection

DATE-ISSUED: June 22, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ginter; Karl L.	Beltsville	MD		
Shear; Victor H.	Bethesda	MD		
Spahn; Francis J.	El Cerrito	CA		
Van Wie; David M.	Sunnyvale	CA		

US-CL-CURRENT: 705/54; 705/26, 705/400, 713/200

ABSTRACT:

The present invention provides systems and methods for secure transaction management and electronic rights protection. Electronic appliances such as computers equipped in accordance with the present invention help to ensure that information is accessed and used only in authorized ways, and maintain the integrity, availability, and/or confidentiality of the information. Such electronic appliances provide a distributed virtual distribution environment (VDE) that may enforce a secure chain of handling and control, for example, to control and/or meter or otherwise monitor use of electronically stored or disseminated information. Such a virtual distribution environment may be used to protect rights of various participants in electronic commerce and other electronic or electronic-facilitated transactions. Distributed and other operating systems, environments and architectures, such as, for example, those using tamper-resistant hardware-based processors, may establish security at each node. These techniques may be used to support an all-electronic information distribution, for example, utilizing the "electronic highway."

101 Claims, 155 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 146

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File: USPT

Aug 1, 1995

US-PAT-NO: 5438508

DOCUMENT-IDENTIFIER: US 5438508 A

TITLE: License document interchange format for license management system

DATE-ISSUED: August 1, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wyman; Robert M.	Kirkland	WA		

US-CL-CURRENT: 705/8; 705/26, 705/59

ABSTRACT:

A distributed computer system employs a license management system to account for software product usage. A management policy having a variety of alternative styles and contexts is provided. Each licensed product upon start-up makes a call to a license server to check on whether usage is permitted, and the license server checks a database of the licenses, called product use authorizations, that it administers. If the particular use requested is permitted, a grant is returned to the requesting user node. The product use authorization is structured to define a license management policy allowing a variety of license alternatives by values called "style", "context", "duration" and "usage requirements determination method". The license administration may be delegated by the license server to a subsection of the organization, by creating another license management facility duplicating the main facility. The license server must receive a license document (a product use authorization) from an issuer of licenses, where a license document generator is provided. A mechanism is provided for one user node to make a call to use a software product located on another user node; this is referred to as a "calling card", by which a user node obtains permission to make a procedure call to use a program on another node. A management interface allows a license manager at a server to modify the license documents in the database maintained by the server, within the restraints imposed by the license, to make delegations, assignments, etc. The license documents are maintained in a standard format referred to as a license document interchange format so the management system is portable and can be used by all adhering software vendors. A feature of the database management is the use of a filter function.

26 Claims, 46 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 18